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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/527,670	03/17/2000	Ghun-up Cha	0630-0983P	2822

7590 12/09/2004

Birch Stewart Kolasch & Birch LLP
P O Box 747
Falls Church, VA 22040-0747

EXAMINER

ARANI, TAGHI T

ART UNIT	PAPER NUMBER
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2131

DATE MAILED: 12/09/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/527,670

Applicant(s)

CHA ET AL.

Examiner

Taghi T. Arani, Ph.D.

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 13-29 and 31-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 13-29 and 31-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☒ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Interview Summary	Application No. 09/527,670	Applicant(s) CHA ET AL.	
	Examiner Taghi T. Arani, Ph.D.	Art Unit 2131	

All participants (applicant, applicant's representative, PTO personnel):

(1) Taghi T. Arani, Ph.D. (3) _____

(2) Carl Thomsen. (4) _____

Date of Interview: 30 November 2004.

Type: a) ☒ Telephonic b) ☐ Video Conference
c) ☐ Personal [copy given to: 1) ☐ applicant 2) ☐ applicant's representative]

Exhibit shown or demonstration conducted: d) ☐ Yes e) ☐ No.
If Yes, brief description: _____

Claim(s) discussed: _____

Identification of prior art discussed: _____

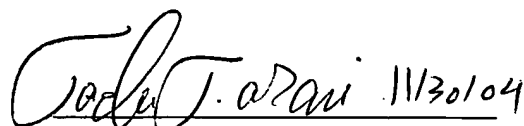
Agreement with respect to the claims f) ☐ was reached. g) ☐ was not reached. h) ☐ N/A.

Substance of Interview including description of the general nature of what was agreed to if an agreement was reached, or any other comments: Applicant's attorney explained the claimed novel feature of the pending application. The Examiner agreed to perform a new search relating to the amended claims and if necessary to contact the Applicant's attorney for an Examiner's amendment. However, The Examiner is providing a new ground of rejection, hence no further telephone call found necessary at this time.

(A fuller description, if necessary, and a copy of the amendments which the examiner agreed would render the claims allowable, if available, must be attached. Also, where no copy of the amendments that would render the claims allowable is available, a summary thereof must be attached.)

THE FORMAL WRITTEN REPLY TO THE LAST OFFICE ACTION MUST INCLUDE THE SUBSTANCE OF THE INTERVIEW. (See MPEP Section 713.04). If a reply to the last Office action has already been filed, APPLICANT IS GIVEN ONE MONTH FROM THIS INTERVIEW DATE, OR THE MAILING DATE OF THIS INTERVIEW SUMMARY FORM, WHICHEVER IS LATER, TO FILE A STATEMENT OF THE SUBSTANCE OF THE INTERVIEW. See Summary of Record of Interview requirements on reverse side or on attached sheet.

Examiner Note: You must sign this form unless it is an Attachment to a signed Office action.


Examiner's signature, if required

DETAILED ACTION

Claims 13-29, 31-33 are pending in this office action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 13-29, 31-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Wiser et al., U.S. Patent No. 6,330,675 issued Dec. 2001.

Referring to claim 13, Wiser et al. teach a method for decrypting an encrypted digital data file, comprising:

receiving a reencrypted data file, wherein a portion of the reencrypted data file has been partially decrypted and reencrypted in a first decryption unit [col. 2, lines 20-28]; and

using a second decryption unit to decrypt the received reencrypted data file [col. 2, lines 28-41], wherein the second decryption unit is different from the first decryption unit [col. 4, lines 47-63, i.e. the first encryption/decryption unit uses DES algorithm with a 56-bit key and the second encryption/decryption unit employs the RC4 algorithm using 40-bit key].

Referring to claim 21, Wiser et al. teach a digital data decryption system comprising:

a first receiving unit for receiving an encrypted digital data file [fig. 2, LOCAL STORAGE MEDIUM 104];

Art Unit: 2131

a first decryption unit for decrypting a portion of the encrypted data file while leaving the remaining portion of the data file encrypted, thereby creating a partially decrypted data file [fig. 2, DECRYPTION ENGINE 202, col. 5, lines 35-43, i.e. the decryption engine 202 incrementally decrypts the source file]; and

a second decryption unit for subsequently decrypting the partially encrypted data file [fig. 2, DECRYPTION ENGINE 214, col.6, lines 15-24, i.e. the decryption engine 214 incrementally decrypts the intermediate file (partially encrypted) stored in hard drive 212].

Referring to claim 27, Wiser et al. teach a method for decrypting an digital data file, comprising:

receiving the encrypted data file in a first receiving unit [col. 3, lines 60-64, i.e. receiving file in encrypted and compressed form across the Internet to the customer's hard drive, fig. 2, LOCAL STORAGE MEDIUM 140].

Transferring the encrypted data file to a first decryption unit [fig. 2, DECRYPTION ENGINE 202];

using the first decryption unit to decrypt a portion of the data file received in the first receiving unit while leaving the remaining portion of the data file encrypted [col. 4, lines 3-6];

storing the decrypted data file in a buffer [fig. 2, LOCAL MEMORY 204];

reencrypting the decrypted data file [fig. 2, ENCRYPTION ENGINE 210]; and

using a second decryption unit for decrypting the reencrypted data file [fig. 2, DECRYPTION ENGINE 214].

As per claims 14, 22 and 28, Wiser et al. teach the method/system of claims 13, 21 and 27 respectively, wherein the partial decryption of the data file (received in the first receiving

Art Unit: 2131

unit recited in claims 22 and 28) is performed at a plurality of locations spaced apart at a predetermined interval on the data file [col. 5, lines 45-50].

As per claims 20 and 23, Wiser et al. teach the method/system of claims 14 and 22 respectively, wherein the predetermined interval is a multiple or divisor of a buffer size [col. 5, lines 60, col. 6, lines 28-24]

Referring to claim 15, Wiser et al. teach the method of claim 13, further comprising storing the partially decrypted data file in a data storage medium [fig. 2, LOCAL STORAGE MEDIUM 212, col. 6, lines 6-10, see also col. 5, lines 66-67] or digital data player [col. 6, lines 21-24].

Referring to claims 16, Wiser et al. teach the method of claims 13, further comprising decrypting the remainder of the partially decrypted data file [col. 5, lines 42-50]

As per claim 24, Wiser et al. teach the method of claim 21, further comprising a data storage medium associated with the first receiving unit for storing the partially decrypted data file [fig. 2, LOCAL STORAGE MEDIUM 212, col. 6, lines 6-10, see also col. 5, lines 66-67].

Referring to claims 17 and 25, Wiser et al. teach the method/system of claims 13 and 21 respectively, wherein the received data file is partially decrypted based on a predetermined encryption key [col. 5, lines 35-38, i.e. according to 56-bit DES].

As per claim 26, Wiser et al. teach the method of claim 21, further comprising a digital player device for receiving the partially decrypted data file [col. 4, lines 28-30, i.e. the distribution device 106 resides primarily on the customer's home computer home],

wherein the digital data player device includes the second decryption unit [col. 4, lines 15-22, i.e. the distribution device 106 residing on the customer's home computer includes the second decryption engine (fig. 2, DECRYPTION ENGINE 214)].

As per claim 29, Wiser et al. teach the method of claim 27, further comprising the step of storing the reencrypted data file in a data storage medium of a digital data player [see col. 6, lines 25-34].

As per claims 18 and 32, Wiser et al. teach the method of claims 15 and 32 respectively, further comprising the step of reading the stored data file from the data storage medium or the digital data player and reproducing the data file at the request of a user [col. 4, lines 2-14, see also col. 6 lines 15-24].

As per claim 19, Wiser et al. teach the method of claims 18, further comprising the step of decrypting the data file based on a predetermined encryption key, and outputting the decrypted data file to an output line [col. 6, lines 6-9, lines 16-34, lines 16-24].

Referring to claim 31, Wiser et al. teach the method of 27, wherein the data file received by the first receiving unit is partially decrypted based on a predetermined encryption key [col. 5, lines 35-38, i.e. according to 56-bit DES].

As per claim 33, Wiser et al. teach the method of claim 32, further comprising the steps of :

sending the reencrypted data file to the digital data player, the digital data player including the second decryption unit [col. 4, lines 28-30, i.e. the distribution device 106 resides primarily on the customer's home computer and the distribution device 106 residing on the

Art Unit: 2131

customer's home computer includes the second decryption engine (fig. 2, DECRYPTION ENGINE 214);

decrypting the reencrypted data file based on a predetermined encryption key [col. 6, lines 15-24, see also lines 6-8 where the decrypted portions is reencrypted according to 40-bit RC4 (i.e. a predetermined encryption key)].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taghi T. Arani whose telephone number is (571) 272-3787. The examiner can normally be reached on 8:00-5:30 Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Taghi T. Arani, Ph.D.
Examiner
Art Unit 2131

E. L. Moise
EMMANUEL L. MOISE
PRIMARY EXAMINER
09/11/2136